

6FW5

Beam Power Tube

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts
Current at heater volts = 6.3 . . . 1.200 amp

Peak heater-cathode voltage:

Heater negative with
respect to cathode. 200 max. volts
Heater positive with
respect to cathode. 200^a max. volts

Direct Interelectrode Capacitances

(Approx.):^b

Grid No.1 to plate. 0.5 μf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 15.0 μf
Plate to cathode & grid No.2,
grid No.2, and heater 7.0 μf

Characteristics, Class A₁ Amplifier:

Plate Voltage	60	150	250	volts
Grid-No.2 Voltage	150	150	150	volts
Grid-No.1 Voltage	0	-22.5	-22.5	volts
Amplification Factor	-	4.4	-	
Plate Resistance (Approx.)	-	-	18000	ohms
Transconductance	-	-	7300	μmhos
Plate Current	345 ^c	-	65	ma
Grid-No.2 Current	27 ^c	-	1.8	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 1	-	-	-42	volts
Grid-No.1 Voltage (Approx.) for peak positive-pulse plate volts = 5000, grid-No.2 volts = 150, and plate ma. = 1	-	-	-100	volts

Mechanical:

Operating Position. Any
Type of Cathode Coated Unipotential
Maximum Overall Length. 3-7/8"
Maximum Seated Length 3-5/16"
Diameter. 1.438" to 1.562"
Bulb. T12
Base. Short Medium-Shell Octal 6-Pin
with External Barriers, Arrangement 1, Style A,
(JEDEC Group 1. No. B6-112)



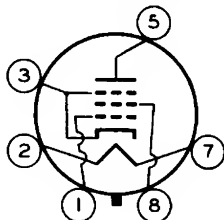
RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
5-62

6FW5

Basing Designation for BOTTOM VIEW. 6CK

Pin 1-Grid No.1
Pin 2-Heater
Pin 3-Cathode,
Grid No.3



Pin 5-Plate
Pin 7-Heater
Pin 8-Grid No.2

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^d

DC PLATE VOLTAGE.	770 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^e . . .	6500 max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE. . .	220 max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE .	330 max.	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE . .	-55 max.	volts
CATHODE CURRENT:		
Peak.	610 max.	ma
Average	175 max.	ma
GRID-No.2 INPUT	3.6 max.	watts
PLATE DISSIPATION ^f	18 max.	watts
BULB TEMPERATURE (At hottest point on bulb surface).	220 max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance.	1 max.	megohm
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^a The dc component must not exceed 100 volts.

^b without external shield.

^c This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^e This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

^f An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

